

CMSWS
Educational
Opportunities:
Middle School



Who we are

Charlotte-Mecklenburg Storm Water Services (CMSWS) is a joint City/County utility to manage the runoff from rainfall, reduce flooding, restore floodplains and protect the water quality of surface waters county-wide.

One way that we do this is by providing **FREE** educational presentations to students. This year we are providing virtual options for all of our programs. Please contact us if you have any questions!



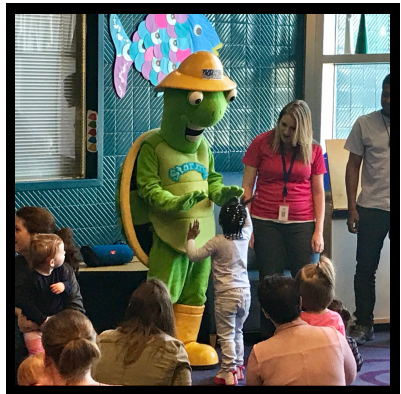
Sharnelle G. Currence



Ken Friday



Taylor Mebane



Ashley Smith



Educational Offerings:

We can provide any of the below presentations in-person or virtually. If virtual, we ask that the teacher creates the event in whatever platform their classroom is utilizing (Zoom, Google, Skype, etc.) and invite our staff member to attend the meeting. Page four outlines NCDPI Standards that we can cover. See the contact information on page five to set up a presentation.

Enviroscape

Our staff will give your students an introduction to CMSWS and go over some key terms (point source pollution, non-point source pollution, stormwater, erosion, etc.). Students will watch a prerecorded video or a live demonstration of our Enviroscape model. Afterwards, our staff will be available to answer any questions from your students.

Floodplain Model

This demonstration shows students the impacts of development. We will discuss impervious surfaces and the important role that trees play in reducing flooding.

Career Talk

Our staff will give an introduction to CMSWS and what we do. Then students will watch a video we have prepared that shows our staff in the field and what their day-to-day routine will look like. After watching the video, our staff will answer questions .

Volunteer Opportunities

Are your students looking for an extra credit activity, volunteer hours, or maybe just a classroom competition? Students can monitor a stream, label storm drains that remind people the drain is only for rain, or perform a litter pickup. Students can do activities on their own, with family, or friends, or they can attend one of our volunteer activities hosted the second Saturday or last Thursday of every month. More info can be found on our website (StormWater.CharMeck.org).

Applicable NCDPI Standards

6th Grade

- 6.E.2.4 Conclude that the good health of humans requires: monitoring the lithosphere, maintaining soil quality and stewardship.
- 6.L.2 Understand the flow of energy through ecosystems and the responses of populations to the biotic and abiotic factors in their environment.
- 6.L.2.3 Summarize how the abiotic factors (such as temperature, water, sunlight, and soil quality) of biomes (freshwater, marine, forest, grasslands, desert, Tundra) affect the ability of organisms to grow, survive and/or create their own food through photosynthesis.

7th Grade

- 7.E.1 Understand how the cycling of matter (water and gases) in and out of the atmosphere relates to Earth's atmosphere, weather and climate and the effects of the atmosphere on humans.
- 7.E.1.2 Explain how the cycling of water in and out of the atmosphere and atmospheric conditions relate to the weather patterns on earth.

8th grade

- 8.L.3.1 Explain how factors such as food, water, shelter, and space affect populations in an ecosystem.
- 8.L.3.3 Explain how the flow of energy within food webs is interconnected with the cycling of matter (including water, nitrogen, carbon dioxide, and oxygen).

We look forward to educating your students!



All programs can be customized for you class. Please let us know specific vocabulary terms you would like for us to incorporate. Don't see a program specific to your needs? Contact us and we will work with you.

Contact Info

Sharnelle G. Currence, Sr. Public Information Specialist
(980)-244-0364

Sharnelle.Currence@CharlotteNC.gov

Ashley Smith, Environmental Specialist III
(980)-721-2094

Ashley.Smith@MeckNC.gov

